**LIST OF FIGURES**

|  |  |  |
| --- | --- | --- |
| Fig. 6.1 | Gantt Chart | 28 |
|  |  |  |
| Fig. 7.1 | Block diagram of the system | 30 |
| Fig. 7.2 | Architecture for the proposed system | 32 |
| Fig. 7.3 | Use case diagram for the proposed system | 37 |
|  |  |  |
| Fig. 8.1.1 | Generation of Egocentric Networks | 39 |
| Fig. 8.1.2 | Creation of new contexts | 40 |
| Fig. 8.1.3 | Use of existing contexts | 40 |
| Fig. 8.1.4 | Elimination of Ego Networks | 41 |
| Fig. 8.1.5 | Reduction of nodes in Egocentric Networks | 41 |
| Fig. 8.1.6 | Generation of Egocentric Congruent Networks | 42 |
| Fig. 8.1.7 | Measurement of Degree and Stability of ECN | 42 |
| Fig. 8.2.1 | Ego Network | 43 |
| Fig. 8.2.2 | Activity diagram for creating of new contexts | 46 |
| Fig. 8.2.3 | Activity diagram for using existing context | 47 |
| Fig. 8.2.4 | Activity diagram for Elimination of Ego Networks | 48 |
| Fig. 8.2.5.1 | Ego Network with nodes reduced | 49 |
| Fig. 8.2.5.2 | Activity diagram for Reduction of nodes in Ego Network | 49 |
| Fig. 8.2.6 | Activity diagram for Generation of ECN | 50 |
| Fig. 8.2.7 | Activity diagram for Measurement of Degree and Stability of ECN | 51 |
| Fig. 8.3.1 | similarity matrix for each of the pools | 56 |
|  |  |  |
| Fig. 9.3.1 | Algorithm for generation of pools | 60 |
| Fig. 9.8.1 | Algorithm for aggregating the descriptions collected | 62 |
| Fig. 9.9.1 | Algorithm for calculation of similarity scores | 63 |
| Fig. 9.11.1 | Calculation of position of nodes in the ECN | 65 |
|  |  |  |
| Fig. 10.1 | User Data Generation | 67 |
| Fig. 10.2 | Pool Creation | 68 |
| Fig. 10.3 | Description Builder | 68 |
| Fig. 10.4 | Add Context | 69 |
| Fig. 10.5 | Browse Context | 70 |
| Fig. 10.6 | Generate Network | 70 |
| Fig. 10.7 | Integrated Diagram | 71 |
|  |  |  |
| Fig. 12.1 | Login page | 81 |
| Fig. 12.2 | Home page | 82 |
| Fig. 12.3 | Context names recommended for the given context description | 83 |
| Fig. 12.4 | Add property to a context – property name recommended | 84 |
| Fig. 12.5 | Browse for a Context | 85 |
| Fig. 12.6 | Egocentric Congruent Network for a given context | 86 |
| Fig. 12.7 | Profile of a person in the ECN | 87 |
| Fig. 12.8 | ECN of another user in another context | 88 |
| Fig. 12.9 | Profile of a user in the ECN | 89 |
| Fig. 12.10 | ECN of another user for another context | 90 |
| Fig. 12.11 | Profile of a user in the ECN | 91 |